

ASA LOUIS

Washington State Patrol Toxicology Laboratory
2203 Airport Way South
Seattle WA 98134
(206) 262 6100
asa.louis@wsp.wa.gov

EMPLOYMENT HISTORY

Washington State Patrol, Seattle WA
Forensic Scientist - Toxicology
Jan 2003 - May 2005, May 2006 – present

- Analyse forensic samples for presence of licit and illicit substances
- Prepare reports of findings, testify as an Expert Witness in courts of law pertaining to findings
- Maintain instrumentation, develop and/or refine analytical methodologies
- Participate in professional accreditation programs as a Technical Assessor (ANAB)
- Participate in professional accreditation programs as an Internal Auditor (ANAB)
- Train stakeholders via continuing education presentations regarding toxicology basics
- Develop curricula for understanding toxicology for non-scientists

Mayo Clinic, Rochester MN
Development Technologist
May 2005 - May 2006

- Update and improve existing methods, implement validated new technology
- Organize validation data, prepare data for peer review, presentation and/or publication
- Investigate, install and evaluate laboratory equipment
- Train laboratory staff in principles of new/modified methods

Provincial Toxicology Centre, Port Coquitlam BC
Forensic Analyst
Sep 1991 - Apr 1992, Jul 1996 - Dec 2002

- Prepare and analyse samples for abusive and non-abusive substances
- Report forensic and clinical results
- Testify as an Expert Witness in courts of law pertaining to findings
- Maintain instrumentation, develop and/or refine analytical methodologies
- Accession forensic and clinical samples

ASL Laboratories, Vancouver BC
Section Coordinator, Purchaser
May 1992 - Jun 1996

- Coordinate daily activities of 3-4 staff members in the Extractable Hydrocarbons Group
- Prepare and quantify samples for organic compound content
- Accession samples for testing, sublet samples to support laboratories
- Purchase, receive and distribute materiel from suppliers
- Emergency Spill Response Team Member

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EMERGENCY MANAGEMENT HISTORY

Northshore Emergency Management Coalition (NEMCo), Kenmore WA
Community Emergency Response Team (CERT) volunteer
Nov 2015 – present

- Lead training of new CERT participants
- NEMCo point of contact for Disaster Airlift Response Team (DART)
- Steering committee member
- Participate in continuing education, through local and FEMA sponsored courses
- Conduct and participate in drills for emergency preparedness
- Support community events, active shooter training

South Snohomish County Fire/ Fire District 1, Everett WA
CERT Fire Corps volunteer
Feb 2017 – present

- Aid in training new CERT participants
- Participate in continuing education, through local and FEMA sponsored courses
- Support community events, active shooter training

Seafair Emergency Management Group, Seattle WA
Volunteer – Logistics, Medical
May 2017 – present

- Support the equipment and transportation needs of the EMG
- Provide first-response level medical care to event guests, participants and staff
- Assist in event safety, crowd management, traffic control

ACADEMIC HISTORY

Post Baccalaureate Diploma Program - Environmental Toxicology
Simon Fraser University. Graduated: Apr 1992

Bachelor of Science - Biochemistry
University of British Columbia. Graduated: Apr 1988

PROFESSIONAL AFFILIATIONS/ CERTIFICATIONS

Forensic ISO/IEC 17025:2017 Technical Assessor – 2019
Forensic ISO/IEC 17025:2017 Internal Auditor – 2019
Forensic Toxicology Specialist Certification (D-ABFT-FT) – 2010
Washington State Blood Analyst Permit - 2003

International Association For Chemical Testing (IACT) - Member 2010
The American Academy of Forensic Sciences (AAFS) - Member 2010
The International Association of Forensic Toxicologists (TIAFT) - Member 2009
Society of Forensic Toxicologists (SOFT) - Member 2009
California Association of Toxicologists (CAT) - Associate Member 2009
Canadian Society of Forensic Science (CSFS) - General Member 2009

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PUBLICATIONS

Louis A, Peterson BL, Couper FJ. XLR-11 and UR-144 in Washington State and State of Alaska Driving cases. J Anal Toxicol. 2014 Oct;38(3): 563-568

Louis A, Logan BK, Couper FJ. Contribution of Fruit Consumption to Ethanol Breath Measurement. Poster presentation - Society of Forensic Toxicologists Meeting, Phoenix AZ, Oct 2008

Louis A, Gordon AM, Logan BK, Indahl J, Fusaro, A. Death and Brain Injury from an Apparent Intentional Methomyl Poisoning. Platform presentation - ICADTS/TIAFT Meeting, Seattle WA, Aug 2007

Langman LJ, Kaliciak HK, Louis A. Death Attributed to Intravenous Oxycodone. Poster presentation - 55th Annual AAFS Meeting, Chicago IL, Feb 2003

EMERGENCY MANAGEMENT CERTIFICATIONS

Executive: (please contact for complete list)

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| ICS-300 | Intermediate Incident Command System for Expanding Incidents |
| ICS-400 | Advanced Incident Command System for Complex Incidents |
| IS-15 | Special Events Contingency Planning For Public Safety Agencies |
| K0146 | Homeland Security Exercise and Evaluation Program |
| MGT346 | EOC Operations and Planning for All Hazards |
| L489 | Management of Spontaneous Volunteers in Disasters |
| | Search Management for the Initial Response Incident Commander |
| | Urban Search – Managing Missing Person Searches in the Urban Environment |

Operations: (please contact for complete list)

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| | Wilderness First Responder – NOLS |
| | Ham Radio Operator – General Class License |
| | Washington State Food Worker – Snohomish County Health |
| | Washington State Traffic Control Flagger |
| | Stop The Bleed – Harborview Medical Center |
| ATC20 | Postearthquake Safety Evaluation of Buildings |
| ATC45 | Safety Evaluation of Buildings After Windstorms and Floods |
| P-50 | Simplified Seismic Assessment of Detached Wood-frame Dwellings |
| PER213 | Wide Area Search |
| | Post Disaster Mental Health Support – Kirkland CERT |

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PRESENTATIONS

- 2021 WA TSRP – Introduction to the Toxicology Laboratory. Online
- 2019 WA TSRP – Effects of Alcohol and Marijuana. Tacoma
- 2018 WA Defenders Association – A View From the Lab: Test Blood for For Drugs. Tacoma
- 2018 Pierce County Department of Assigned Council – Introduction to The Toxicology Lab.
- 2018 WA Association of Prosecuting Attorneys – DUI Bootcamp. Burien
- 2018 WA TSRP – THC and Toxicology; Fentanyl – a Primer. Yakima
- 2017 DEA – Drug Effects on Human Performance. Seattle
- 2017 Pierce County Department of Assigned Council – THC General Overview. Tacoma
- 2017 WA TSRP – Toxicology and Marijuana Case Overview. Yakima
- 2016 WA Department of Licensing – Toxicology Laboratory Test Results. Tacoma
- 2016 WA Association of Prosecuting Attorneys – Uncertainty Levels and Mixed Alcohol and Marijuana DUI. Leavenworth
- 2015 Pierce County Department of Assigned Council – Defending DUI's: Blood Testing and the Effects of Alcohol and Drugs, DRE. Tacoma
- 2015 WA Association of Prosecuting Attorneys – Mixed Ethanol and THC DUI's. Leavenworth
- 2015 Pierce County Prosecuting Attorney – Toxicology Laboratory Overview. Tacoma
- 2013 WA State Assn of Municipal Attorneys – Prosecuting a Drugged Driver. Walla Walla
- 2013 Seattle Police Department DRE school – Toxicology Laboratory Overview. Seattle

RELATED SKILLS

Time of Flight Mass Selective Liquid Chromatography
Tandem / Mass Selective Liquid Chromatography
High Turbulence Liquid Chromatography
Mass Selective Gas Chromatography
Gas Chromatography – Flame Ionisation, Nitrogen Phosphorous, Electron Capture
High Pressure Liquid Chromatography
Radio-Immuno Assay Techniques
Colloidal Immuno Assay Techniques
Ultraviolet Spectrophotometry
Thin Layer Chromatography
Supercritical Fluid Extraction
Solid Phase Extraction

TRAINING

- 2019 ANSI National Accreditation Board – Technical Assessor Training Course
- 2019 ANSI National Accreditation Board – Internal Auditor Training Course
- 2018 SOFT – How Do You Analyze For That?
- 2018 RTI International – Interpretive Toxicology for NPS in Forensic Casework
- 2018 RTI International - Current Trends in Forensic Toxicology
- 2017 Calif. Assoc. Toxicologists – The Future Looks Green
- 2017 Advances in Forensic Analyses: When to Use GC-MS/MS, LC-MS/MS and HRMS
- 2017 SOFT/ACCENT – Assessment and Comparison of Vitreous Humor as an Alternative Matrix for Forensic Toxicology
- 2016 SOFT/ACCENT – Analysis of Parent Synthetic Cannabinoids in Blood and Urinary Metabolites by Liquid Chromatography Tandem Mass Spectrometry
- 2016 SOFT/ACCENT – Retrospective Analysis Synthetic Cannabinoid Metabolites in Urine of Individuals Suspected of Driving Impaired
- 2016 SOFT/ACCENT – Thermal Degradation of Synthetic Cathinones
- 2015 Calif. Assoc. Toxicologists – Z-Drugs Workshop
- 2015 UND School of Medicine - Death Investigation Advanced Topics

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2015 UND School of Medicine - Death Investigation Cultural Competency
 2015 UND School of Medicine - Death Investigation Basics
 2015 UND School of Medicine - Death Investigation Mental Health First Aid
 2014 AAFS - Designer Drug Detection in Forensic Toxicology: From Basic to Brilliant
 2014 AAFS - Novel Psychoactive Substances: Pharmacology, Toxicology and Case Reports
 2014 AAFS - Driving Under the Influence of Drugs
 2014 LCGC Chromacademy - Optimizing LC-MS Ionization Conditions pt 1
 2013 RTI International - Fundamentals of Mass Spectrometry in Toxicology
 2013 RTI International - Fundamentals of Chromatography used in Toxicology
 2013 RTI International - Pills and Particles: Toxicology and Linking Trace Evidence
 2013 The Evidence Conference - What Makes a Credible Witness
 2013 West Virginia University - Perspectives in Expert Testimony
 2012 U. of New Mexico - Sudden Death - Cause of Death Scenarios that Mimic One Another
 2012 West Virginia University - Ethics in Forensic Sciences
 2012 RTI International - Z Drugs on Demand
 2012 RTI International - Fundamentals of Immunoassay Testing Used in Toxicology
 2012 RTI International - Drug Facts: A DFSE Perspective
 2011 Calif. Assoc. Toxicologists - Forensic Alcohol
 2011 Midwest Forensic Research Center - Symposium on the Toxicology of DUID
 2011 Washington State Patrol - Horizontal Gaze Nystagmus (Dr. K Citek)
 2011 Siemens Webinar Series - Spice
 2010 Washington State Patrol - Spice (J Messick, Anchorage Prosecutors Office)
 2008 Seattle Police Dept. - Advanced Roadside Impaired Driving Enforcement
 2008 SOFT - The "Stimulating" Realm of Sympathomimetic Amines and Tryptamines
 2008 SOFT - Applications of LC-MS in Human and Veterinary Toxicology
 2008 Washington Traffic Safety Commission - DRE In-service Training
 2007 Indiana University - The Effects of Drugs on Human Performance and Behaviour
 2006 Mayo Clinic - Analyst Advanced Training (J Withers, Applied BioSystems)
 2006 Mayo Clinic - Oral Fluids: Research and Applications (Dr. M Wagner, NH State Police)
 2005 Mayo Clinic - Development Quality School
 2004 Seattle Police Dept. - DUI Detection and Standardized Field Sobriety Testing (NHTSA)
 2004 Northwest Assn. For. Sci. - Marijuana: A Forensic Symposium
 2004 Northwest Assn. For. Sci. - Forensic Applications of LCMS
 2004 Northwest Assn. For. Sci. - GC/MSD maintenance
 2003 Indiana University - Robert F Borkenstein course on Alcohol and Highway Safety
 2003 SOFT - Principles of Sample Preparation
 2003 SOFT - Practical Applications of LCMS in Routine Forensic Toxicology
 2003 Washington State Patrol - Standard Field Sobriety Test Training (Refresher)
 2003 Canadian Soc. For. Sci. - The A-Z of Marijuana
 2003 Canadian Soc. For. Sci. - Rave On! Chemical Drugs and the Rave Culture
 2003 Washington State Patrol - Blood Alcohol Analyst
 2002 Pittsburgh Conference - Intermediate LC/MS Techniques
 2002 Can. Comm. Epidemiology Network/ADIC - Methamphetamine Environmental Scan Summit
 2000 UBC - Radionuclide Safety and Methodology
 1997 Riverview Hospital - Transportation of Dangerous Goods - Biological
 1995 ASL Labs - Transportation of Dangerous Goods - Chemical
 1993 Hewlett-Packard - 5890 Troubleshooting and Maintenance
 1992 ASL Labs - WHMIS
 1992 Hewlett-Packard - HP Columns
 1992 Greiner, Bethell & Company - Expert Witness